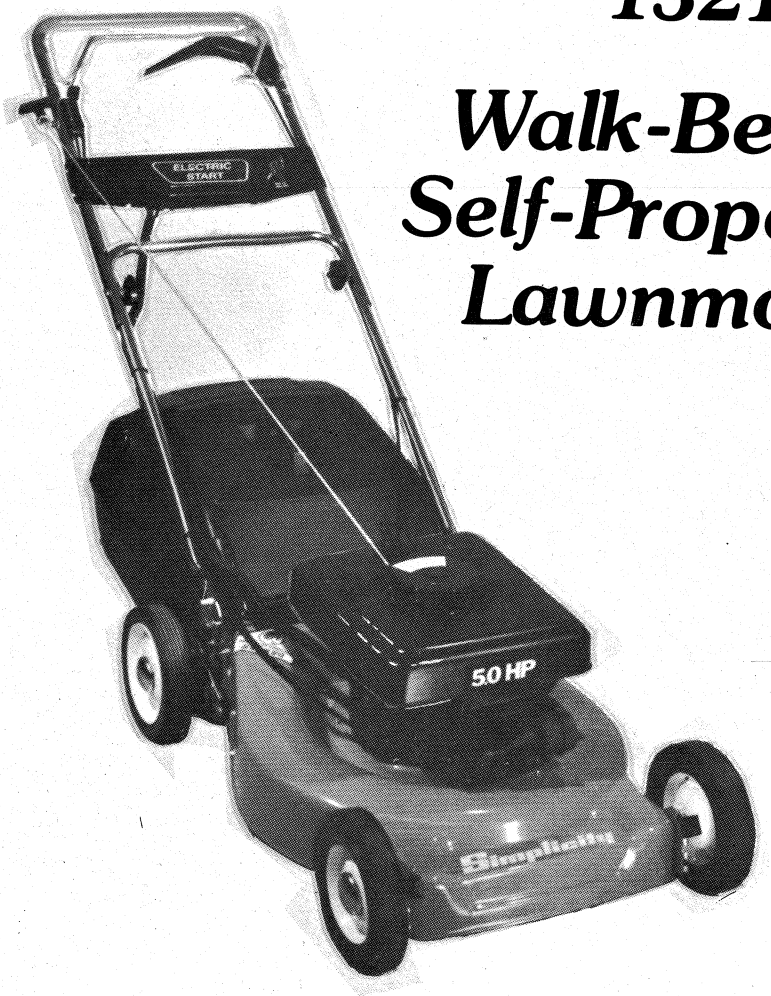
Operator's Manual

Model 1321PPE

Walk-Behind Self-Propelled Lawnmower



5 HP, 21" Cutting Width

MFG. NO. 1691103 and 1691262

Simplicity®

Form - 1677744-02
8612

⚠ DANGER

Your rotary lawnmower is a powerful machine which is capable of amputating hands and fingers, feet and toes, and throwing objects that can cause serious injury. Those who use and maintain the machine must be trained in its proper use, know of its dangers, and read this entire manual before attempting to set-up, operate, or service the machine. Failure to observe these instructions, as well as the engine manual, can result in serious injury.

This safety alert symbol identifies important safety information in this manual. When you see this symbol, be alert to the possibility of injury and carefully read the information that follows.

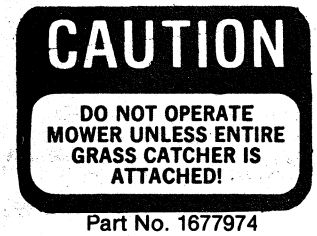
There are three levels of hazard intensity identified by safety alert symbols and signal words - DANGER, WARNING, and CAUTION. The level of hazard intensity is determined by the following definitions:

⚠ DANGER Immediate hazard which will result in permanent personal injury or death.

⚠ WARNING Hazard or unsafe practice which could result in severe permanent personal injury.

⚠ CAUTION Hazard or unsafe practice which could result in minor or severe personal injury or product damage.

Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged.



Part No. 1677974

Part No. 1677902

Part No. 1700809

Part No. 1667016

YOUR NEW MOWER - FACTS YOU SHOULD KNOW

All rotary mowers manufactured after June 30, 1982 are built to meet the U.S. Consumer Product Safety Commission standards. This new mower operates differently than mowers you may have used in the past. The changes you'll notice most are...

1. The engine/blade must be started from the operator's zone behind the mower's handle.
2. The operator must hold the engine/blade cross bar control against the handle to keep the engine/blade turning.
3. Releasing the engine/blade cross bar control causes the engine/blade to come to a complete stop within 3 seconds.

These new regulations are designed to make mowing safer for you, and to protect you from a blade related injury

IMPORTANT RULES FOR SAFE OPERATION

1. Read your Owner's Manual and Engine Instruction Manual carefully. Be thoroughly familiar with the controls, and know how to stop the mower quickly.
2. **Never** allow children to operate a power mower.
3. Prevent accidents — keep all people and pets, particularly small children away!
4. Thoroughly inspect the area you plan to mow and remove all stones, sticks, wire, toys, and other foreign objects before mowing.
5. Do not operate your mower when barefoot or wearing sandals. **Always** wear substantial footwear. Steel-toe shoes are recommended.
6. Check your fuel **before** starting the engine. Do not fill the gasoline tank indoors, when the engine is running, or until the engine has been allowed to cool for several minutes after running. Clean off any spilled gasoline before starting the engine.
7. Be sure the self-propelled mechanism or drive clutch is disengaged on a self-propelled mower before starting the engine. Never stand in front of a self-propelled mower.
8. Never attempt to make a wheel height adjustment while the engine is running.
9. Mow your lawn only in daylight.
10. Never operate your mower in wet or damp grass. Always be sure of your footing — keep a firm hold on the handle and walk, **never run.**
11. Operate the engine at the slowest speed that provides a satisfactory cutting job.
12. Do not put hands or feet near or under any rotating parts—keep well away from the discharge opening at all times.
13. Stop the engine when crossing any drive, walk or road.
14. Should the mower strike a foreign object, stop the engine immediately; remove the wire from the spark plug and thoroughly inspect the mower. Repair any damage **before** restarting and operating the unit.
15. If your mower should start to vibrate abnormally, stop the engine, remove the spark plug wire and check immediately for the cause. Vibration is generally a warning of trouble.
16. Stop the engine whenever you leave the mower. Remove the spark plug wire before cleaning the mower housing, and when making any repairs or inspections.
17. When cleaning, reparing or inspecting your mower make certain the blade and all moving parts have stopped, disconnect the spark plug wire and keep it away from the plug to prevent accidental starting.
18. Because of hazardous exhaust fumes, **never** run the engine indoors, or in a garage.
19. If you are using a grass catcher, stop the engine and wait until the blade comes to a complete stop before removing or attaching the catcher, or unclogging chute.
20. Mow **across** the faces of slopes, never up-and-down. Use extreme caution when changing mowing direction on slopes. Do not mow slopes that are excessively steep.
21. Never operate your mower without the proper guards, plates or other safety devices in place. Do not start the mower unless the safety chute deflector or entire grass bag is in its proper position.
22. Do not run engine at excessive speeds. Do not tamper with engine governor springs, governor links or other parts which may increase the governed engine speed.
23. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
24. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
25. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
26. To reduce fire hazard, keep the engine free of grass, leaves, or grease.
27. Under normal usage, the grass catcher bag material is subject to deterioration and wear and should be checked frequently. Be sure any replacement bag complies with the manufacturer's specifications.
28. Avoid situations which require you to pull the mower backwards. This will lessen the possibility of stumbling over objects which are not readily seen.
29. Never attempt to unclog a discharge chute with hands or feet.

CUSTOMER'S RESPONSIBILITIES

(include but not limited to)

Always use care when operating the lawnmower. Keep clear of moving parts. Do not work on lawnmower with motor running. Avoid striking or running into solid objects or debris in the area to be mowed. Read and observe the rules for safe operation. Keep the lawnmower clean. Follow a regular maintenance and check schedule to provide efficient and safe operation. A well-cared for lawnmower will last longer and operate more efficiently. Always be careful.

Read this Manual in its entirety before attempting to assemble or operate the lawnmower. The lawnmower has been assembled at the factory with the exception of those parts left unassembled for shipping purposes.

The manufacturer of this mower is not authorized to do engine warranty repair. If your engine requires expert adjusting and repair service, contact your local factory approved Briggs & Stratton authorized service station, which you will find listed in the classified section of your telephone directory under "Engines - Gasoline".

NOTE: THIS PRODUCT IS EQUIPPED WITH AN INTERNAL COMBUSTION TYPE ENGINE. DO NOT USE UNIT ON OR NEAR ANY UNIMPROVED FOREST - COVERED OR BRUSH - COVERED LAND UNLESS THE EXHAUST SYSTEM IS EQUIPPED WITH A SPARK ARRESTOR MEETING ANY APPLICABLE LOCAL, STATE OR FEDERAL LAWS. A SPARK ARRESTOR, IF IT IS USED, MUST BE MAINTAINED IN EFFECTIVE WORKING ORDER BY THE OPERATOR. SEE YOUR AUTHORIZED SERVICE CENTER OR ENGINE MANUFACTURER'S SERVICE CENTER.

SET-UP INSTRUCTIONS

Remove spark plug wire and place into spark plug wire holding tab on engine. Refer to engine manual for location.

NOTE: Before Assembling or Operating Unit; Check for damage and/or Missing Parts.

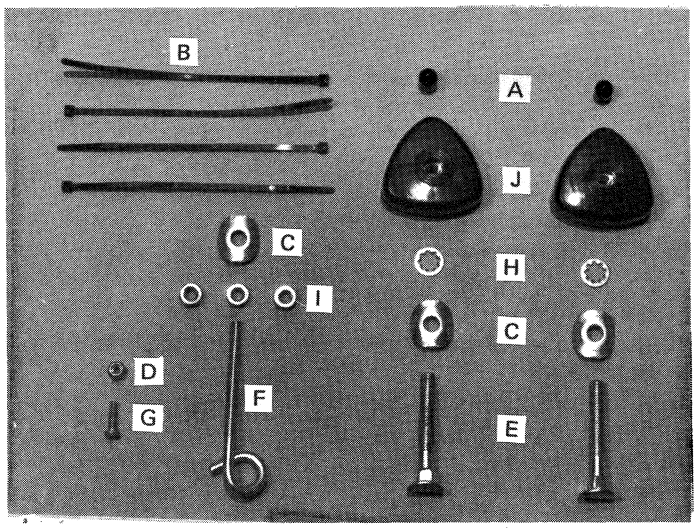
DO NOT OPERATE THIS MOWER UNTIL ALL ASSEMBLY PROCEDURES HAVE BEEN ACCOMPLISHED.

Reference to right or left of mower is from operator's position behind handle, facing forward.

Carefully read and follow instructions to be sure unit is properly assembled.

Following parts for assembling mower handle and controls are found in the parts bag.

A	1677873	Cap-Bolt End, Plastic	2
B	1677800	Cable Tie	4
C	1664070	Washer-Curved	3
D	1674238	Nut-Hex #8-32 Nylok	1
E	1677804	Bolt-Curved Head 5/16-18 x 2¼	2
F	1677811	Eyebolt-Rope Guide	1
G	1677985	Screw-Pan Head #8-32 x 5/8	1
H	1923300	Washer-Shakeproof 5/16	2
I	1928372	Nut-Hex ¼-20 Keps	3
J	1677817	Knob-Handle Retaining	2



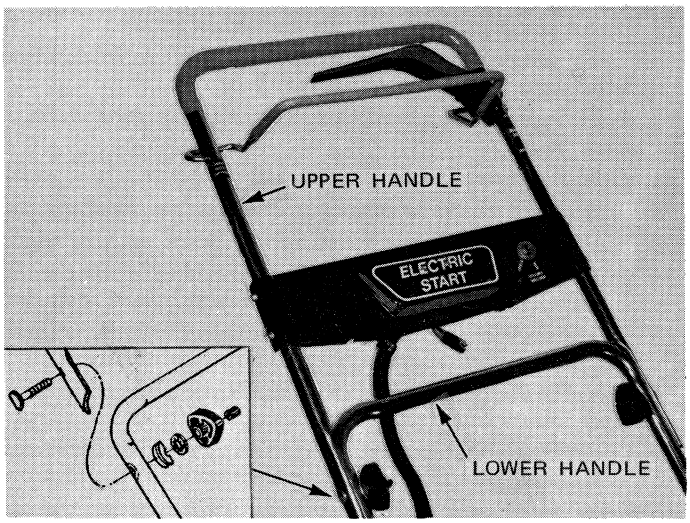
HANDLE

⚠WARNING Care should be taken when folding and un-folding the handle to ensure that control cables are not damaged. A damaged control cable can impair operation of engine/blade brake. The mower should not be operated in this condition, and should be repaired immediately by an authorized service center.

1. Pull lower handle toward rear of mower until handle snaps into stop position in handle brackets.
2. Attach upper handle to lower handle by lining up holes and inserting curved head bolt (E) from outside of upper handle through hole in lower handle.
3. While holding upper handle in position, put curved washer (C), flat washer (H), retaining knob (J) on curved head bolt, tighten each knob securely.

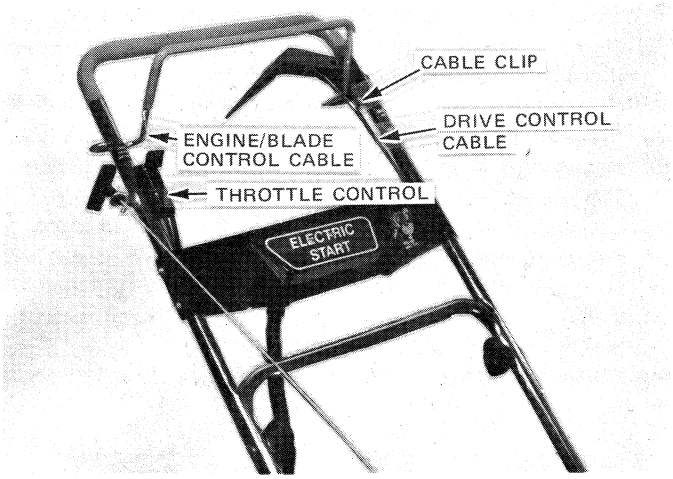
⚠WARNING DO NOT operate mower unless handle bolts are in place and tight.

4. Install plastic bolt caps (A) on ends of curved head bolts.



CONTROLS

NOTE: All mower controls have been assembled to engine at factory. If any controls have come loose, contact your dealer for assistance.



1. Carefully uncoil engine/blade control cable, throttle control, and ground drive control cable. Route all these cables as shown in exploded view drawing on page 10.
2. Install nut (I) on rope guide (F) with washer away from eye of rope guide. Turn nut on all the way and install curved washer (C) on rope guide.
3. Position throttle control on right inside of upper handle and slide rope guide through hole in handle and through hole in throttle control.
4. Install "Z" fitting on engine/blade control cable through hole on right side of engine/blade control bail.

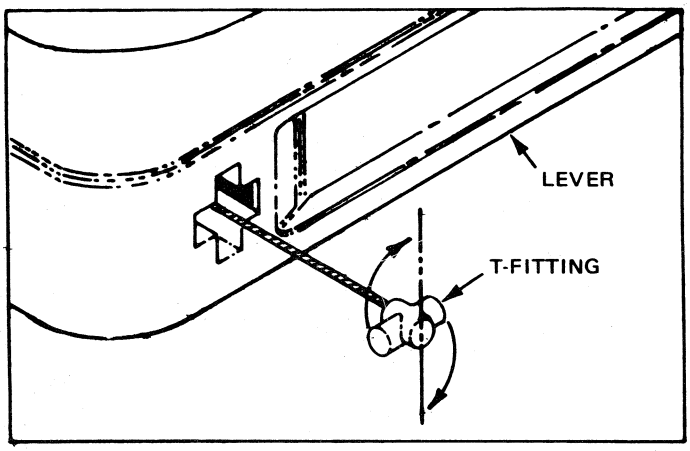
5. Slide plastic clip on engine/blade cable over rope guide with cable above mounting hole.
6. Install ¼-20 nut (I) on rope guide and tighten so cable clip is tight against throttle control.

⚠CAUTION **DO NOT overtighten nut on rope guide; damage to throttle may result.**

7. Thread starter rope through rope guide eye.

NOTE: Starter rope will not pull out unless engine/blade bail is pulled back to handle.

8. Place cable for ground drive over control bail and insert "T" fitting on cable up through hole in control lever. Rotate cable to secure "T" fitting in lever.



9. Secure cable clip to lever support with #8 x ⅝ screw (G) and nut (D).
10. Secure all cables to handle with cable ties (B)
11. Refer to adjustments and check operation of belt tightener for drive belt.

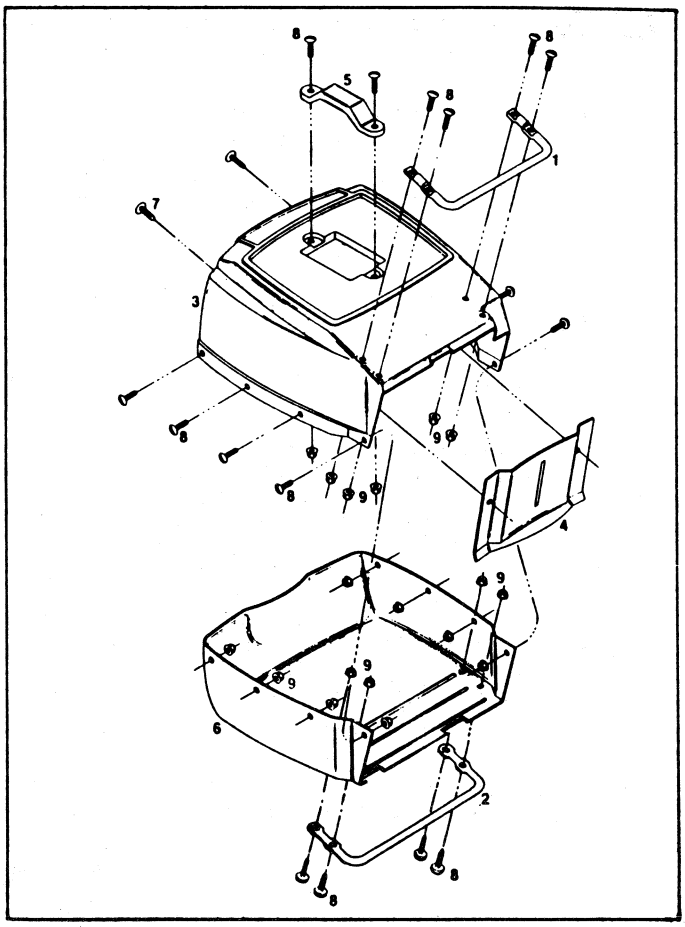
⚠WARNING **A damaged control cable can impair the operation of the engine/blade brake. The mower should not be operated in this condition and should be repaired immediately by an authorized service center.**

⚠DANGER **Blade will turn as you raise handle with bail control held against handle. Keep hands an feet away from blade!**

GRASS CATCHER

1. Align holes in baffle (4) with holes in rear of catcher top (3). Push plastic fastener (7) through both pieces. Note: Be sure to put curved end of baffle toward catcher bottom.
2. Put catcher top (3) upside down on flat surface. Set catcher bottom (6) on catcher top.
   Note: Bottom fits inside flange on top, and between baffle and top.
3. Align holes in top and bottom. Put ¼-20 screws (8) through holes. Install ¼-20 locknuts (9) and tighten screws (eight required).
4. Align holes in upper catcher frame (1) with holes in catcher top. Put ¼-20 screws through holes, install locknuts, and tighten screws. Note: Frame goes on outside of catcher.
5. Align holes in lower catcher frame (2) with holes in catcher bottom. Put ¼-20 screws through holes, install locknuts, and tighten screws. Note: Frame goes on outside of catcher.
6. Align holes in handle (5) with holes in catcher top. Put ¼-20 screws through holes, install locknuts, and tighten screws.

⚠DANGER **Do not operate mower without chute door or approved grass catcher in place.**



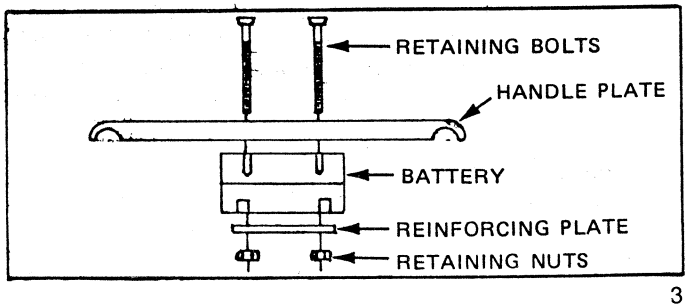
Ref No.	Part No.	Description	Qty.
1	1678046	Frame-Upper	1
2	1678047	Frame-Lower	1
3	1677830	Top-Catcher	1
4	1677831	Baffle-Catcher	1
5	1677866	Handle-Catcher	1
6	1677835	Bottom-Catcher	1
7	1678048	Fastener-Plastic	2
8	1678049	Screw-Slotted 1/4-20 x 5/8	18
9	1930641	Nut-Hex 1/4-20 Lock	18

BATTERY

1. Push two #8-32 x 3¼ bolts down through decal on handle plate and install battery on bolts with wires facing ignition switch.
2. Install reinforcing plate on bolts and secure with two #8-32 nuts.

⚠WARNING **DO NOT overtighten bolts; damage to battery could result.**

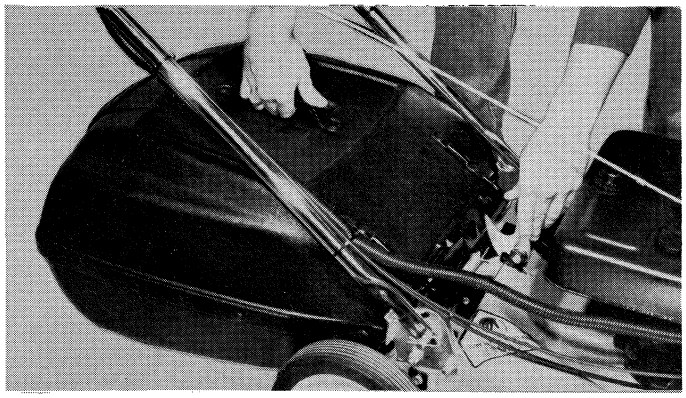
3. Connect wires from battery to wiring harness.



ATTACHING GRASS CATCHER

⚠DANGER Do not attempt to attach or remove grass catcher while engine/blade is turning.

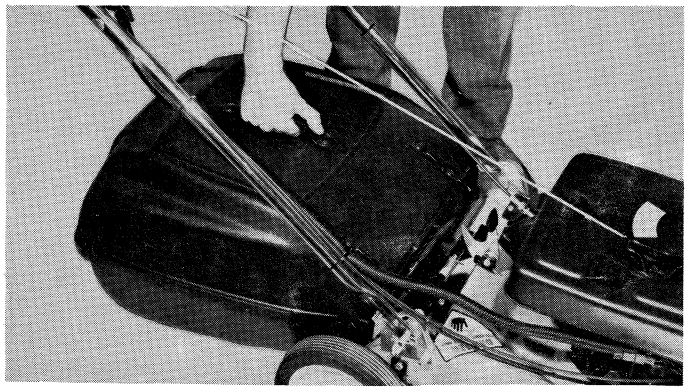
1. Position catcher behind mower with lower catcher frame resting in catcher frame brackets.
2. Place foot on deck and restrict mower from movement. Firmly grasp top catcher handle and push catcher toward front of mower. With free hand push catcher latch toward front of mower.
3. Catcher frame will push open door. Continue to push forward until catcher contacts rear of mower. Release catcher latch and lock catcher in position.



REMOVING GRASS CATCHER

1. Push catcher latch toward front of mower until frame is disengaged.
2. Lift catcher from brackets, set on ground behind mower.
3. Push mower forward to clear the catcher. Remove and dispose of grass clippings.

⚠CAUTION The Grass Catcher Will Fill To Near Capacity. Since Catcher Is Extended Some Distance To Rear of Mower, The Added Weight Of A Fully Packed Grass Catcher May Tend To Shift The Balance of Mower, Especially When Mowing On Hilly Terrain. Under These Conditions Grass Catcher Should Be Emptied Frequently.



CHECK GRASS CATCHER FREQUENTLY FOR WEAR OR DETERIORATION. REPLACE WHEN NEEDED. FOR SAFETY PROTECTION USE ONLY MANUFACTURER'S RECOMMENDED REPLACEMENT CATCHER.

CONTROLS

Spend a few minutes familiarizing yourself with the controls before attempting to operate the mower.

All controls are clearly labeled but a few words of explanation may further clarify their use.

⚠WARNING Your mower throttle contorl (if so equipped) will no longer stop the engine/blade. It will only act as a means to increase or decrease the engine/blade speed. To stop the mower, release the engine/blade cross bar control from the handle.

⚠DANGER In the event that your mower will not stop after you have released the cross bar control, move the equipment to a safe area where it can be observed until the fuel runs out. Have the mower immediately inspected and repaired by an authorized manufacturer's service center or engine manufacturer's service center.

⚠DANGER While engine is running, blade is moving.

⚠WARNING The engine/blade controls are adjusted at the factory and no other adjustment should be required. However, a check should be made occassionally to insure that there is slack in the engine cable inner wire when the engine/blade cross bar control is released to its farthest forward position from the handle. If there is no slack, service is required and should only be performed by an authorized Simplicity Dealer.

THROTTLE CONTROL

The throttle control is used to choke engine for starting and to increase and decrease engine speed during mower operation.

DRIVE SYSTEM CONTROL

The drive control lever engages and disengages self-propelling drive system.

To engage drive to rear wheels, pull control lever back against handle while holding engine/blade control bail against handle.

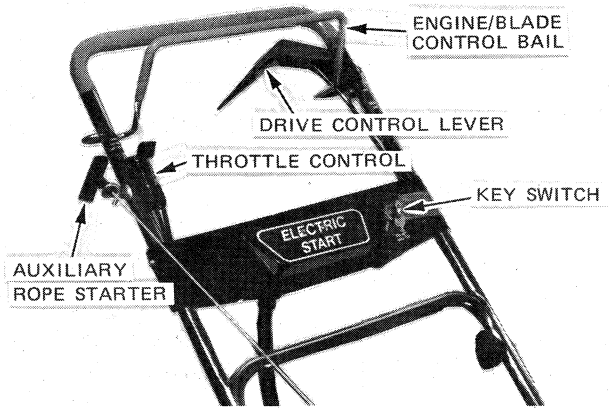
To stop drive mechanism, release drive control lever. The engine/blade will continue turning until control bail is released.

ENGINE/BLADE CONTROL BAIL

The bail controls the operation of the engine/blade. Bail must be held against handle when starting engine and to keep engine/blade operating while mowing.

Releasing control bail will stop engine/blade. Reduce engine speed before releasing bail to stop engine.

In the event engine/blade does not stop when control bail is released, move mower to an area where it can be observed until fuel runs out. Have mower immediately inspected and repaired by an authorized Simplicity Dealer.



OPERATION

ENGINE

⚠CAUTION **This mower was shipped from our factory without oil in the crankcase. Fill this mower with proper oil prior to starting. Do not mix oil and gas.**

Before starting engine, carefully read and follow instructions in engine manufacturer's manual provided.

1. Fill engine crackcase with oil as recommended by engine manufacturer.
2. Fill fuel tank with gasoline grade recommended by engine manufacturer. DO NOT mix oil with gasoline.

⚠CAUTION **The engine speed is pre-set at the factory to 3200 RPM maximum (no load).**

⚠WARNING **Do not change engine RPM setting.**

⚠WARNING **Do not mix gasoline with oil.**

⚠WARNING **Your engine is equipped with a brake system which will stop the engine/blade within three seconds when the engine/blade cross bar control is released. The engine/blade stopping time should be checked regularly to insure that it is within three seconds. If it appears that the stopping time is more than three seconds, the engine/blade brake should be checked and repaired by an authorized engine service center only.**

STARTING ENGINE

Refer to engine manufacturer's manual for engine starting instructions.

1. Move throttle control to "fast" position.
2. While standing in the operating position, squeeze control bail against handle with left hand and grasp starter rope handle with right hand.
3. Pull starter rope rapidly to crank engine. As soon as engine starts, move throttle control to obtain desired engine speed.

DO NOT PULL STARTER ROPE WHILE ENGINE IS RUNNING.

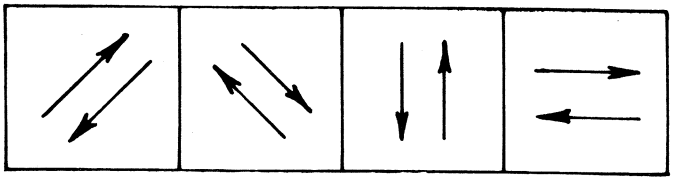
4. To stop engine, reduce engine speed with throttle control and release control bail.

MOWING TIPS

Never run engine at a higher speed than necessary Excessive cutting speed, or tampering with the engine's governor can be dangerous. Operate engine at slowest speed that provides a satisfactory cutting job.

⚠WARNING **Always mow across the face of slopes, hills, or terraces — never up and down. Avoid situations which require you to pull the mower backward.**

1. When grass is lush, select a mowing pattern that will discharge the grass into the area previously cut.
2. In extremely heavy grass conditions, it may be necessary to reduce the width of cut to ¾ or ½ of the normal cutting width by overlapping the cutting row.
3. Maintain a sharp cutting edge on the blade. (Refer to blade sharpening instructions) A dull blade will split or bruise the grass ends, and result in rapid browning of the freshly cut area.
4. When possible, vary your mowing pattern frequently as shown, and try to mow in a different direction each time you cut your lawn. This will eliminate matting, graining and corrugating, and enhance the overall appearance of your lawn.



SUGGESTED MOWING PATTERNS

5. Never attempt to cut more than one-third of the grass length.
6. Never mow grass when it is wet, always wait until it has dried. This will improve the bagging characteristics of your mower. You will also lessen the danger of slipping on wet grass.

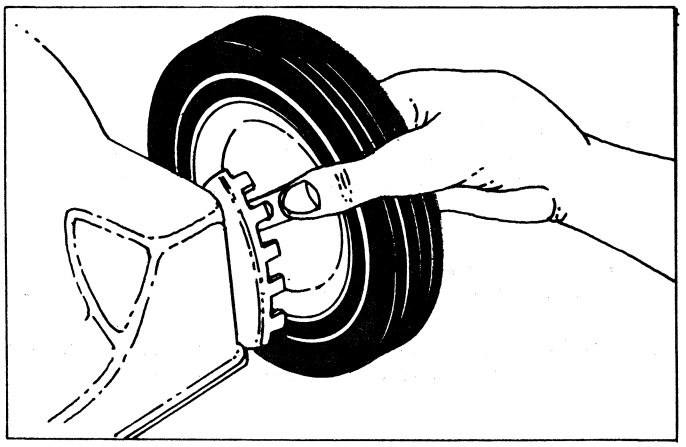
CUTTING HEIGHT ADJUSTMENT

⚠DANGER **Keep hands and finges from under mower while engine/blade is turning.**

⚠WARNING **Do not attempt to make a height of cut adjustment while the engine/blade is turning. Always stop the engine/blade and disconnect the spark plug wire and attach it to the spark plug wire holding tab or post to avoid accidental starting.**

Each wheel has a lever operated adjuster for changing cutting height. Five lever positions are available. Cutting heights are approximately 1", 1½",2", 2½", and 3".

To change height of cut, pull adjusting lever away from mower and move it to desired height adjustment. Release lever to lock it in position. Maintain all levers in same relative position so mower will cut even.



ADJUSTMENTS

⚠WARNING NEVER MAKE ANY INSPECTIONS, ADJUSTMENTS OR REPAIRS WITHOUT FIRST DISCONNECTING SPARK PLUG WIRE. PLACE WIRE WHERE IT CANNOT COME IN CONTACT WITH SPARK PLUG.

ENGINE/BLADE CONTROL

The engine/blade control is adjusted at the factory and no further adjustments should be required.

If engine/blade fails to stop when control bail is released, move mower to an area where it can be observed until engine runs out of fuel. Have mower immediately inspected and repaired by an authorized Simplicity Dealer.

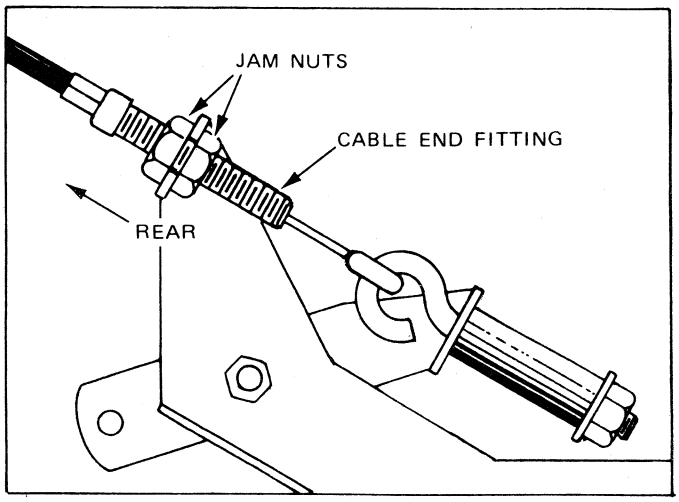
BELT TIGHTENER CONTROL CABLE

⚠WARNING Disconnect spark plug wire when working on mower.

If mower fails to propel or propels at a reduced rate of speed when drive control lever is engaged, it indicates that drive belt may be slipping due to wear or stretching.

To alter belt tightener tension on drive belt, proceed as follows:

1. Loosen jam nuts on cable end fitting and move cable housing toward rear to increase tightener pulley tension on drive belt.
2. Tighten jam nuts finger tight and check operation of drive control. Maintain just enough tension on drive belt to propel mower without permitting drive belt to slip.
3. After proper adjustment has been accomplished, tighten jam nuts securely.



MAINTENANCE

REMOVING BLADE

⚠WARNING Disconnect the spark plug wire and attach to holding tab or post.

⚠WARNING Do not operate mower without blade washer in place.

⚠WARNING Drain all fuel from tank and store in a gasoline container.

⚠WARNING When replacing blade bolt, be sure to tighten to 45 ft/lb (foot-pounds) torque.

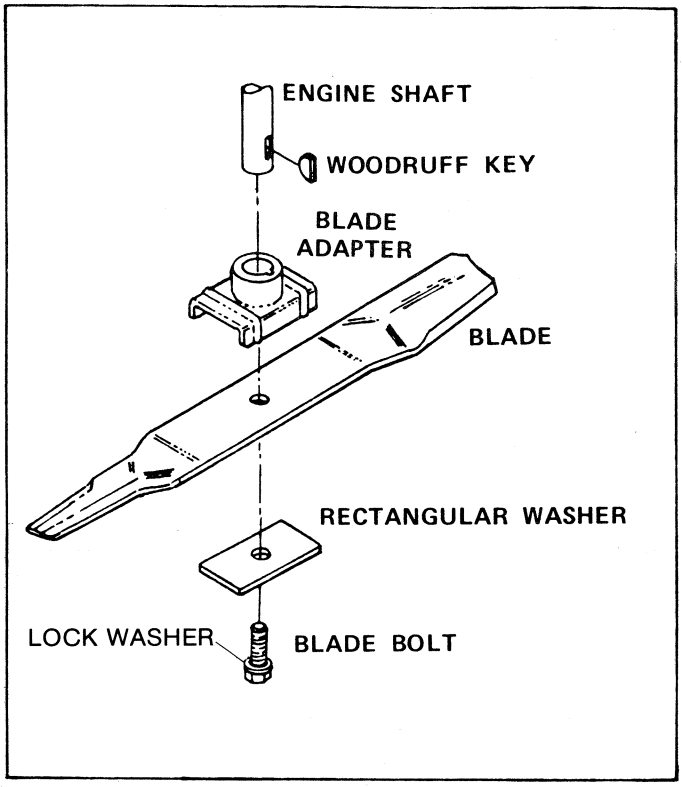
⚠WARNING Do not touch the cutting edge of the mower blade. It is sharp and can cause a severe injury.

Most new blades are razor sharp and should be handled with extreme care. Used blades may have sharp edges and burrs also. To protect against cuts, wrap end of blade in cloth. A long 9/16" offset box end wrench is the safest and easiest to use for removing blade bolt. Hold padded blade with one hand while loosening bolt with wrench. When bolt is removed entirely, blade will come loose.

SHARPENING BLADE

(See "Removing Blade")

⚠WARNING Before removing blade, disconnect spark plug wire and attach to holding tab or post.



⚠WARNING Always drain fuel from tank and store in a gasoline container.

⚠WARNING Always wear safety glasses or wide vision safety mask while sharpening the mower blade.

⚠WARNING When replacing blade bolt, be sure to tighten to 45 ft/lb (foot-pounds) torque.

⚠WARNING Do not touch the cutting edge of the mower blade. It is sharp and can cause a severe injury.

⚠WARNING Use only original equipment blade, blade adapter, blade washer and blade bolt.

Always disconnect spark plug wire before working on the mower! After removal, blade may be sharpened with a file or grinding wheel. Make sure blade is in balance before use. Balance of blade may be determined by balancing blade on sharp edge or hanging on string or wire through center hole.

After sharpening or when replacing with a new blade, inspect blade adapter for damage. If adapter has been removed, be sure woodruff key is in slot in engine shaft and does not slip out as adapter is slid onto engine shaft. Replace blade with rectangular washer as shown and tighten blade bolt securely. Recommended torque is 40 to 45 ft.-lbs.

⚠CAUTION AN UNBALANCED OR BENT BLADE WILL CAUSE VIBRATION DAMAGE NOT COVERED BY WARRANTY.

Keeping a spare sharp blade on hand will avoid delay when replacement becomes necessary. (See parts list for ordering instructions.)

CLEANING MOWER

The underside of mower deck should be cleaned after each use. This will minimize the accumulation of grass and debris. Dead clippings tend to rot, invite rust, and create objectionable odors. To clean underside of mower deck, we recommend:

1. Disconnect spark plug wire and attach to holding tab or post.
2. Drain all fuel from tank.
3. Tip mower on its side with muffler side up.
4. Use a putty knife to scrape off accumulated grass and debris.
5. A damp rag may be used to wipe down outside of mower.

⚠WARNING Always disconnect spark plug wire and attach to holding tab or post.

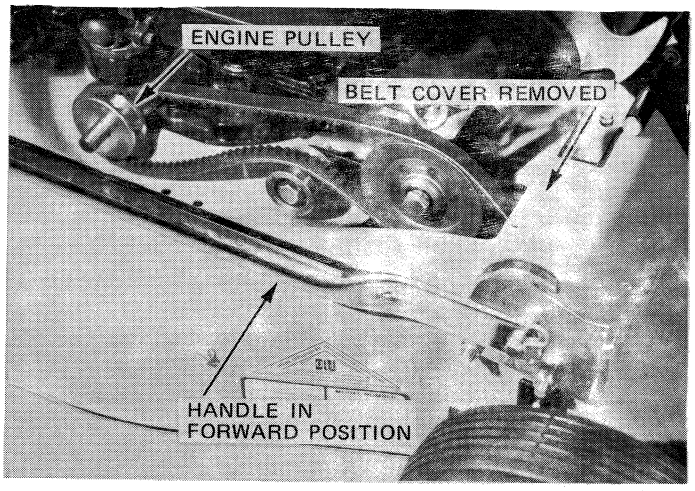
⚠WARNING Always drain fuel from tank and store in a gasoline container.

⚠WARNING Do not touch cutting edge of mower blade. It is sharp and can cause severe injury.

BELT REPLACEMENT

⚠WARNING Disconnect spark plug wire and attach to holding tab or post.

1. Remove belt cover by removing two #10 screws and one #6 screw and remove belt from engine pulley.
2. Spread lower handle out past positive up stop on handle bracket and fold assembly toward front of deck as shown.Be careful not to damage cables when folding.

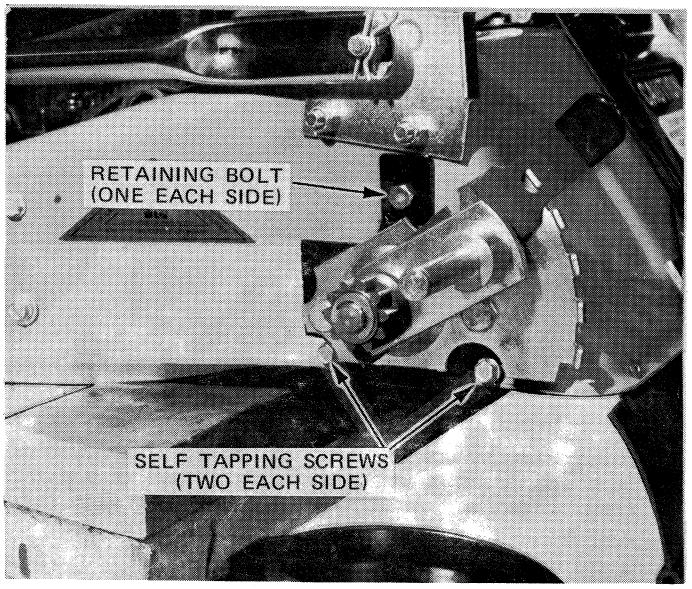


3. Move rear height adjuster setting levers to lowest height of cut.
4. Support rear of mower so rear wheels are off the ground.

⚠WARNING Deck edges may be sharp and could cause severe injury. Be careful when handling.

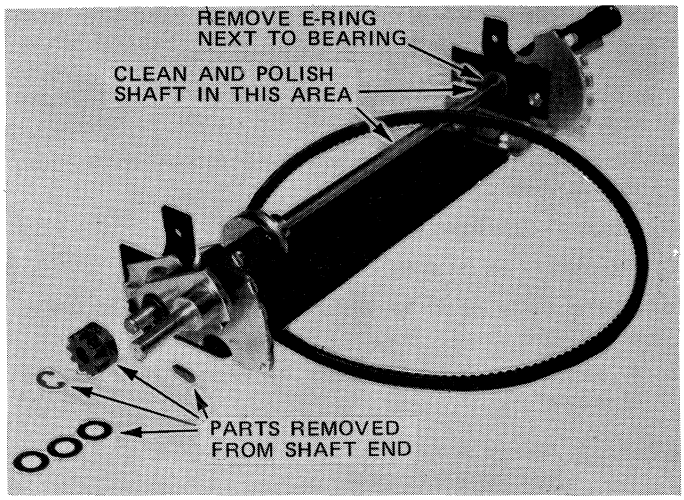
5. To remove rear wheels, pry off hub cap and remove retaining ring, thrust washers, wheel, and dust cover.
6. Remove two (2) bolts and four (4) self tapping screws shown. Hold drive support bracket in deck until all four screws and two bolts are out.

⚠WARNING Do not touch cutting edge of mower blade. It is sharp and can cause severe injury.



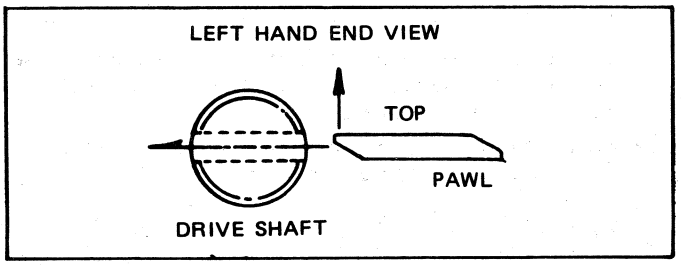
7. Carefully lower drive support bracket out of deck. Remove V-belt from idler pulleys as drive support bracket is lowered.
8. Clean all debris from drive support bracket. Thoroughly clean and polish with emery cloth or steel wool and lubricate areas of shaft shown in illustration on next page.
9. Remove "E-ring", thrust washer, pinion, drive pawl and thrust washer from left hand end of shaft. Remove E-ring next to bearing on right hand end of shaft. Thoroughly clean, polish, and lubricate end of shaft.

NOTE: Shaft must be free from all high spots caused by dirt or rust in order to slide through bearings. A clean shaft will make removal and reassembly much easier.

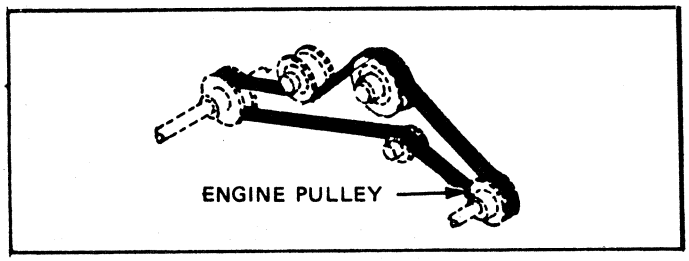


10. Slide shaft to right through bearings far enough to remove old belt and install new belt.
11. Reassemble parts in reverse order. Pay special attention to the following:

    A. Drive pawl must be installed with bevel facing correct direction.



    B. V-belt must be routed around idler pulleys, as illustrated.

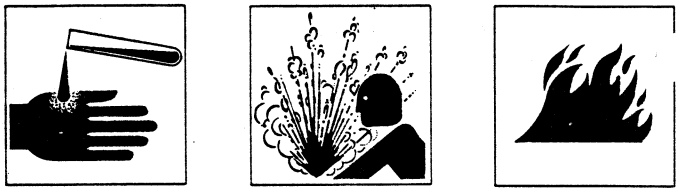


12. After drive system has been completely re-assembled with wheels and dust covers in place, remove support from under rear of mower and fold handle to rear until it locks into operating position.
13. Refer to drive control cable adjustment and adjust drive control for proper belt tension. Reinstall belt cover when drive control adjustment is complete.

⚠WARNING Never operate without belt cover in place.

BATTERY CHARGING

⚠DANGER



This battery contains and acid electrolyte which can cause severe chemical burns and produces gases which can cause the battery to explode. The electrical energy contained in the battery is capable of igniting a fire.

Inspect wiring harness periodically for damaged insulation which could short circuit the electrical system.

This battery is a sealed system and does not require the addition of electrolyte. In the event of skin exposure to electrolyte - immediately flush with water - if eye exposure to electrolyte flush with water for 15 minutes and consult a physician.

Remove all jewelery before handling the battery.

Do not use any other battery charger except that which was provided with your equipment.

Do not attempt to jump start the battery!

Do not expose battery to fire or mutilate.

Keep battery from freezing.

⚠CAUTION **Failure to follow all instuctions can void electrical system warranties.**

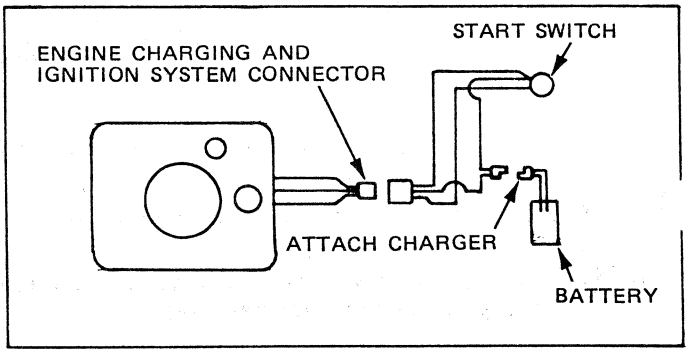
⚠CAUTION **Freezing can damage battery. Store fully charged in a cool dry location.**

Your lawn mower battery has been pre-charged at the factory and should have sufficient capacity to start the engine for the first mowing. However, due to environmental changes during shipment and warehousing it may be necessary to charge your battery before use.

In the event that the battery is discharged a short term 2 to 3 hours charging cycle should provide enough power to start the engine in most cases. After completion of the first mowing an additional 48 hour charging cycle is required.

During the mowing season the engine "on board charging system" should keep the battery in a state of charge. To charge your battery disconnect the battery lead from the wiring harness, attach the charging unit into the battery lead, plug the charging unit into a household receptacle which provides 120 volts A.C., 60 Hertz only. To bring the battery to full charge a 48 hour charging cycle is required.

Before and after winter storage, or extended periods where the equipment is not used, it is recommended that the battery be charged for a period of 48 hours, and stored in a cool and dry environment such as an unheated garage.



STORAGE

For longer life and more trouble free performance, it is recommended that you follow these steps whenever your ower will be stored for a long period of time:

1. Disconnect spark plug wire and attach to holding tab or post.
2. Drain fuel tank completely and store gasoline in an approved container.
3. Reconnect spark plug wire and run engine until any gasoline remaining in carburetor is exhausted.
4. Remove spark plug and pour one ounce of SAE 30 oil into spark plug opening. Then pull starter one full turn to spread oil. Reinstall spark plug, do not re-connect spark plug wire.
5. While engine is still warm, drain oil from crankcase, refill crankcase with fresh oil. Refer to engine manufacturer's operating and maintenance instructions.
6. Clean all dirt and chaff from mower deck, cooling fins and blower housing. Refer to engine manufacturer's operating and maintenance instructions.
7. Check all fasteners for proper tightness.
8. Touch up paint to prevent rust.

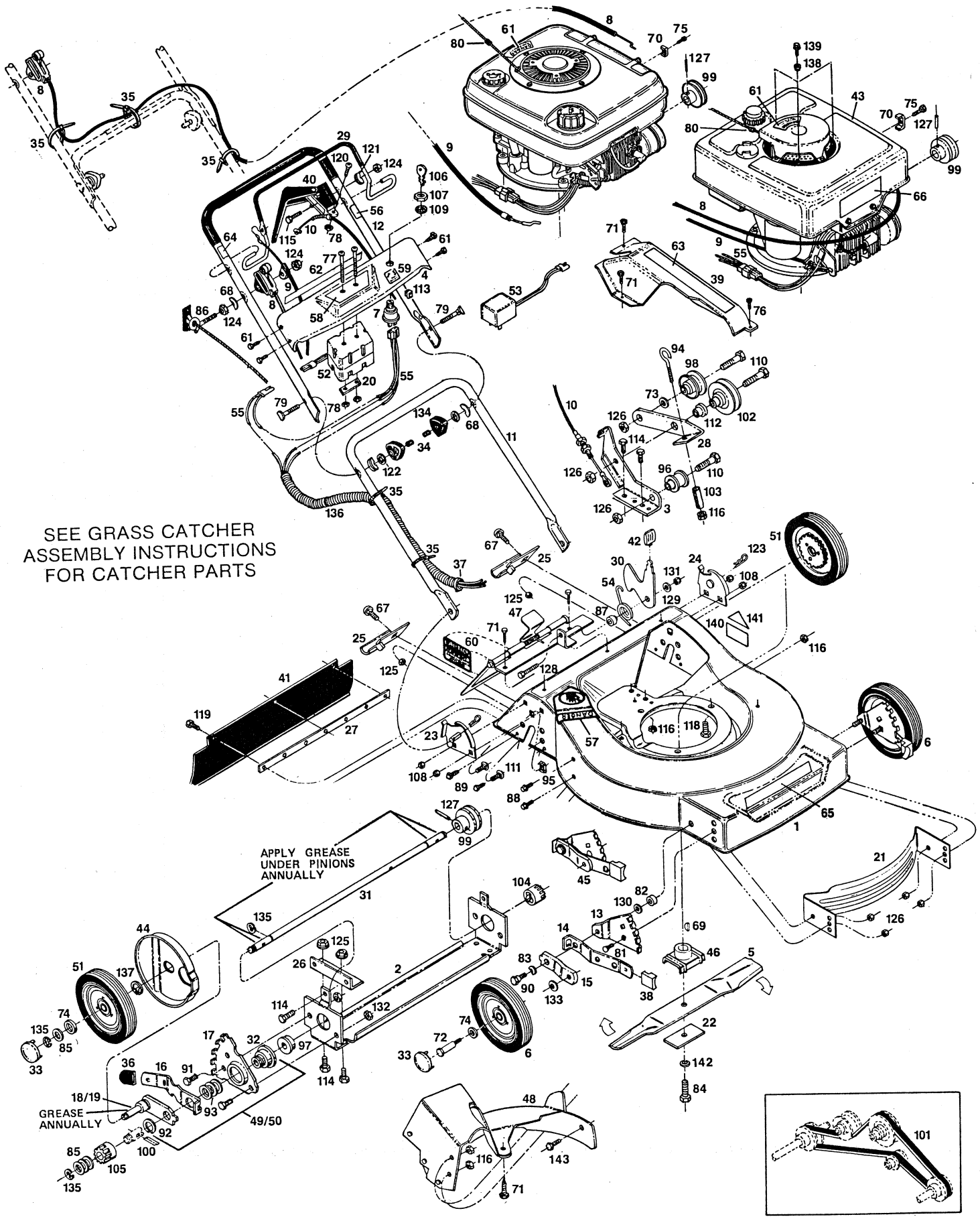
WARNING **Disconnect spark plug wire and attach to holding tab or post.**

WARNING **Do not touch cutting edge of mower blade. It is sharp and can cause a severe injury.**

Maintenance Record

Date	Hours Used	Oil Change	Air Cleaner Service	Lubrication	Winter Storage	Spring Service	Spark Plug Gap

PARTS ILLUSTRATION FOR MODEL 1321 PPE (1691103) & (1691262)



PARTS LIST FOR MODEL 1321PPE (1691103) & (1691262)

Ref No.	Part No.	Qty.	Description
1	1677779	1	Deck
2	1677876	1	Bracket-Drive Support
3	1677847	1	Bracket-Idler Mounting
4	1677893	1	Plate-Handle
5	1664041	1	Blade-21"
6	1677785	2	Wheel-Front, 8 x 1.75
7	1677894	1	Switch-Start
8	1677788	1	Control-Throttle w/Cable
	*1701005	1	Control-Throttle w/Cable
9	1677789	1	Cable-Engine/Blade Control
10	1677824	1	Cable-Wheel Drive Control
11	1677825	1	Handle-Lower
12	1678044	1	Handle-Upper
13	1677839	2	Plate-Back, Front Adjuster
14	1677840	2	Lever-Setting, Front Adjuster
15	1677841	2	Lever, Wheel, Front
16	1677964	2	Lever, Setting, Rear Adjuster
17	1677965	2	Plate-Back, Rear Adjuster
18	1677966	1	Lever-Wheel w/Pin Rear RH
19	1677967	1	Lever-Wheel w/Pin Rear LH
20	1677988	1	Plate-Reinforcing, Battery
21	1677827	1	Baffle-Front
22	1677792	1	Washer-Blade
23	1677796	1	Bracket-Handle RH
24	1677797	1	Bracket-Handle LH
25	1677828	2	Hook-Grass Catcher
26	1677877	2	Bracket-Drive Support
27	1677829	1	Strip-Backing
	*1701006	1	Strip-Backing
28	1677848	1	Arm-Idler
29	1677799	1	Bail-Engine/Blade Control
30	1677968	1	Latch-Grass Catcher
31	1677878	1	Shaft-Drive
32	1677969	2	Sleeve-Stepped, Rear Adjuster
33	1677801	4	Cap-Wheel Hub
34	1677873	2	Cap-Bolt End, Plastic
35	1677800	4	Cable Tie
36	1677970	2	Tip-Adjuster Lever, Rear
37	1677990	2	Clip-Harness Retainer
38	1677842	2	Tip-Adjuster Lever, Front
39	1677832	1	Cover-Belt
40	1677833	1	Control-Wheel Drive
41	1677834	1	Shield-Trailing
42	1677859	1	Knob-Catcher Latch
43	1677836	1	Shroud-Engine
44	1677971	2	Cover-Dust, Rear Wheel
	*1701007	2	Cover-Dust, Rear Wheel
45	1677838	2	Adjuster-Height, Complete, Front
46	1664060	1	Adapter-Blade
47	1677972	1	Door-Catcher Opening
48	1677868	1	Baffle Assembly, Rear
49	1677879	1	Adjuster-Height, Complete, LH Rear
50	1677880	1	Adjuster-Height, Complete, RH Rear
51	1677887	2	Wheel-Rear w/Gear
52	1677991	1	Battery-12 Volt
53	1677992	1	Charger-Battery
54	1677861	1	Spring-Torsion, Catcher Latch
55	1677993	1	Harness-Wiring
56	1677899	1	Decal-Drive Control Instructions
57	1667016	1	Decal-Danger, Dischange Chute
58	1677900	1	Decal-Electric Start
59	1677901	1	Decal-Ignition Switch
60	1677974	1	Decal-Caution, Catcher Door
61	1677975	1	Decal-Warning, Blade
	*1700809	1	Decal-Warning, Blade
62	1677902	1	Decal-Starting Instructions
63	1677976	1	Decal-21" Rear Drive
64	1677903	1	Decal-Auxiliary Start
65	1677977	1	Decal-Simplicity
66	1677978	1	Decal-5.0 HP
67	1923333	2	Bolt-Carriage 1/4-20 x 5/8
68	1664070	4	Washer-Curved 5/16
69	910224	1	Key-Woodruff #6
70	1677808	1	Clamp-Throttle Cable
71	1677805	9	Screw-Hex slotted #10 x 5/8
72	1677806	2	Bolt-Wheel, Front
73	1924940	1	Washer-Flat, 3/8 ID, 7/8 OD
74	1677888	4	Washer-Wheel Retaining
75	1654998	1	Bolt-Hex #10-32 x 3/8
76	1931839	1	Screw-Self Tap #6-20 x 1/2
77	1677995	2	Screw-Machine #8-32 x 3 1/4
78	1674238	3	Nut-Hex #8-32 Nylok
79	1677804	3	Bolt-Curved Head 5/16-18 x 2 1/4
80	1677809	1	Stop-Rope
81	1922110	2	Bolt-Carriage 3/8-16 x 3/4
82	1677843	2	Washer-Plastic, Front Adjuster
83	1677844	2	Washer-Spring, Front Adjuster
84	1677810	1	Bolt-Blade w/Washer 3/8-24 x 1
	*1700875	1	Bolt-Blade 3/8-24 x 1 1/4
85	1677881	8	Washer-Thrust 1/2 ID
86	1677811	1	Eyebolt-Rope Guide
87	1677863	1	Spacer-Catcher Latch
88	1921958	4	Bolt-Hex 1/4-20 x 1/2
89	1923341	4	Bolt-Self Tap 1/4-20 x 3/4
90	1677845	2	Bolt-Shoulder, Front Adjuster
91	1677979	4	Bolt-Hex, 3/8-16 x 1/2
92	1677980	2	Ring-Retainer 7/8
93	1677981	6	Washer-Spring, Rear Adjuster
94	1677982	1	Eyebolt-Idler Cable
95	1677983	2	Nut 1/4-20 Snap in
96	1677850	1	Pulley-Idler
97	1677984	2	Bearing-Drive Shaft
98	1677851	1	Pulley-Idler
99	1677882	2	Pulley-Drive
100	1677883	2	Pawl-Drive
101	1677884	1	Belt-Drive V
102	1677852	1	Pulley-Idler
103	1678050	1	Sleeve-Idler Cable
104	1677885	1	Pinion-Wheel Drive LH
105	1677886	1	Pinion-Wheel Drive RH
106	1677996	1	Key-Start Switch
107	1677997	1	Nut-Hex 5/8-32
108	1919438	4	Nut-Hex 5/16-18 Nylok
109	1917373	1	Washer-Lock 5/8
110	1921971	3	Bolt-Hex 3/8-16 x 1 3/4
111	1931333	4	Bolt-Carriage 5/16-18 x 3/4
112	1677853	1	Spacer-Idler
113	1677998	2	Clip-tinnerman
114	1921959	8	Bolt-Hex 1/4-20 x 5/8
115	1922837	1	Bolt-Hex 1/4-20 x 1 1/2
116	1916622	6	Nut-1/4-20
117	1677815	3	Nut-Hex #10-24 Nylok
118	1927187	3	Bolt-Hex 3/8-16 x 7/8
119	1933737	3	Bolt-Hex #10-24 x 1/2
120	1677985	1	Screw-Pan Head #8-32 x 5/8
121	1677890	1	Washer-Curved
122	1923300	2	Washer-Shakeproof 5/16
123	106787	2	Cotter-Hairpin
124	1928372	3	Nut-Hex 1/4-20 Keps
125	1930641	6	Nut-Hex 1/4-20 Whiz
126	1930651	7	Nut-Hex 3/8-16 Lock
127	916001	2	Pin-Roll 3/16 x 1
128	1921960	1	Bolt-Hex 1/4-20 x 1
129	1917377	1	Washer-Flat 1/4
130	1918266	2	Washer-Flat 3/8
131	1923358	1	Nut-Hex 1/4-20 Lock
132	1917421	4	Nut-Hex Jam 3/8-16
133	1677816	2	Washer-Belleville
134	1677817	2	Knob-Handle Retaining
135	1677986	6	Ring-Retainer
136	1677999	1	Wrapping-Wire Harness
137	1678205	2	Ring Retainer, Dust Shield
138	1678206	3	Retainer-Engine Shroud
139	1925003	3	Bolt-Hex 1/4-20 x 1/2 TD FM
140		1	Decal-Model Number (Not Serviced)
141		1	Decal-OPEI (Not Serviced)
142	1916965	1	Lockwasher-3/8 Split HD
143	1701094	1	Bolt-1/4-20 x 3/8 Shaved Head

INSTRUCTIONS FOR ORDERING PARTS...MOWER PARTS can be ordered from the dealer from whom your mower was purchased. Be sure to specify the part number, not reference number, and the description of each required item - also, the model and serial number of your mower.

***MFG. No. 1691262 ONLY**

LIMITED WARRANTY

(USA Only)

COVERED BY WARRANTY

Simplicity Manufacturing, Inc., *(Simplicity)*, warrants to the original purchaser that each new product listed below is merchantable and free from defects in workmanship and material.

During the warranty period, any authorized *Simplicity* Dealer will provide, at no charge, both parts and labor (except as otherwise noted) necessary to correct any defect in workmanship and material.

WARRANTY PERIOD

The *Simplicity* products listed below are warranted for the stated period from the date of the original purchase.

(1) Garden tractors, lawn tractors, riding mowers and their implements - 2 years (one year if used for purposes other than personal household use).

(2) 2 Stage Snowthrowers and accessories - 2 years (90 days if used for purposes other than personal household use).

(3) Other Walk-Behind products and accessories - 1 year (90 days if used for purposes other than personal household use).

(4) 9500 Series liquid-cooled diesel tractors - 2 years on the power train (engine, gears, shafts, torque limiters, bearings, housings, oil-cooled clutches and oil-cooled brakes). 1 year on the balance of the tractor and implements.

(5) Repair Parts (parts only, no labor) are warranted for 90 days (45 days if used for purposes other than personal household use). (See separate warranty for batteries.)

Repair parts installed on products receive the same warranty period remaining for the product or 90 days (45 days if used for purposes other than personal household use), whichever is longer. (See separate warranty for batteries.)

OWNER RESPONSIBILITIES

To qualify for warranty service, the purchaser of a *Simplicity* product must:

(1) Have sent the Warranty Registration card to *Simplicity* at the time of purchase.

(2) Notify a *Simplicity* Dealer as soon as possible after discovery of a possible defect. (If you are not aware of your nearest *Simplicity* dealer, write for such information to Simplicity Manufacturing, Inc., Attn: Service Dept., P.O. Box 210, Port Washington, WI 53074.)

NOT COVERED BY WARRANTY

The following are not covered by warranty:

(1) Transportation charges to and from Dealers: **OR**

(2) Damage caused by misuse of the product or by operating the product in excess of recommended capacities: **OR**

(3) Damage caused by negligence or accident: **OR**

(4) Products which have been altered or repaired in a manner not authorized by *Simplicity*.

(5) Engines, electric starters and transaxles are warranted separately by their respective manufacturers, except Company agrees to make available to the owners whatever warranty benefits may be made available to the Company by the manufacturers.

(6) Normal maintenance and/or replacement of maintenance and wear items, such as oil, filters, blades, belts, brake and clutch linings.

ALL IMPLIED WARRANTIES, EXCEPT TO THE EXTENT PROHIBITED BY ANY APPLICABLE LAW, SHALL HAVE NO GREATER DURATION THAN THE WARRANTY PERIOD FOR THE APPLICABLE PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

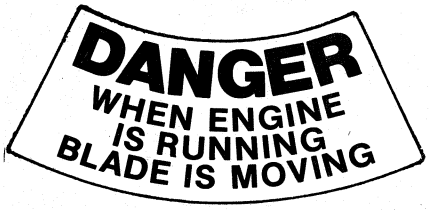
THE COMPANY'S LIABILITY ARISING OUT OF WARRANTIES, REPRESENTATIONS, INSTRUCTIONS, OR DEFECTS FROM ANY CAUSE, SHALL BE LIMITED EXCLUSIVELY TO REPAIR OR REPLACING PARTS UNDER THE CONDITIONS IN THIS WARRANTY, AND IN NO EVENT WILL COMPANY BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Simplicity®
MANUFACTURING, INC.

LOCATED NEAR REAR DISCHARGE OPENING

LOCATED ON CHUTE DISCHARGE DOOR



LOCATED ON TOP OF ENGINE

DANGER: FOR YOUR SAFETY DO NOT LOCK ENGINE/BLADE CROSS BAR CONTROL.
WARNING: DO NOT OVERCHARGE BATTERY.
FOR ADDITIONAL INFORMATION REFER TO OWNERS MANUAL.
STARTING INSTRUCTIONS
1. MOVE ENGINE/BLADE CROSS BAR CONTROL TO RUN POSITION.
2. TURN IGNITION SWITCH TO START POSITION. RELEASE KEY WHEN ENGINE STARTS.
3. SET THROTTLE CONTROL TO DESIRED SPEED.
4. TO STOP, RELEASE ENGINE/BLADE CROSS BAR CONTROL.
5. TO RESTART, REPEAT STEPS 1 AND 2.
STOP
RUN
144915

LOCATED ON HANDLE PANEL

Simplicity Manufacturing, Inc.
500 N. Spring Street
P.O. Box 210
Port Washington, Wi 53074

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